

Application Serial No. 10/643,376
Response to Restriction Requirement dated December 28, 2004
Reply to Restriction Requirement dated December 1, 2004

Amendments to Claims

This listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims

1-32. (canceled)

33. (previously presented) A thermostat system comprising:
- a processor having a user interface; and
 - a program, in the processor, having an at least one configuration for an air management system, the at least one configuration comprising:
 - an air management system identification;
 - a listing of zones for the air management system;
 - parameter settings for each zone;
 - schedules of the parameter settings;
 - a modulated control for a plurality of heating stages for at least one zone;
 - and
 - a modulated control for a plurality of cooling stages for at least one zone.

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34. (previously presented) The system of claim 33, further comprising:

a plurality of programmable thermostats; and
wherein the processor may download the program having
at least one configuration to each thermostat of
the plurality of thermostats.

35. (previously presented) The system of claim 34, wherein the
at least one configuration further comprises a modulated control
for a simultaneous operation of a heating device and a cooling
device.

36. (previously presented) The system of claim 35, wherein the
simultaneous heating device and the cooling device is for
affecting humidity.

37. (previously presented) The system of claim 36, wherein the
at least one configuration comprises a modulated control for an
air mover.

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38. (previously presented) The system of claim 37, wherein the modulated controls comprise PID (proportional, integral and derivative) control loop tuning.

39. (previously presented) The system of claim 38, wherein the parameters are selected from a group consisting of temperatures, humidity, sensor selection, volume of air movement, the percentage of added fresh air, modes of occupied, unoccupied or standby of certain spaces for at least one zone.

40. (previously presented) The system of claim 38, wherein the at least one configuration further comprises a selectable non-modulated control for the pluralities of the heating and cooling stages and for the air mover.

41. (previously presented) The system of claim 40, wherein the processor is a portable configuring device.

42. (previously presented) The system of claim 41, wherein the processor has a capability comprising:

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uploading a configuration from a thermostat of the
plurality of thermostats;
modifying the configuration; and
downloading the configuration to the thermostat.

43. (previously presented) The system of claim 42, wherein the processor may download the configuration to several thermostats of the plurality of thermostats.

44. (previously presented) The system of claim 41, wherein:
the processor may upload a configuration from a
thermostat of the plurality of thermostats;
the configuration may be diagnosed for possible
problems;
the configuration may be modified to remove the
possible problems; and
the configuration may be downloaded to the thermostat
of the plurality of thermostats.

45. (previously presented) The system of claim 41, wherein the processor is a personal digital assistant.

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46. (previously presented) The system of claim 45, the personal digital assistant is selected from group of devices consisting of a Palm™ and the like

47. (withdrawn) A thermostat system comprising:

a configuring device; and

a plurality of thermostats for air management systems,
respectively; and

wherein:

the configuring device may upload, store, modify

and download one or more configurations of

the plurality of thermostats;

each configuration may be modified by changing:

parameter settings;

schedules of parameter settings; and

modulated controls for heating stages

and cooling stages.

48. (withdrawn) The system of claim 47, wherein each air management system may have a plurality of zones.

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49. (withdrawn) The system of claim 48, wherein the configuring device has various configurations that may be downloaded to the thermostats of the air management systems at different locations.

50. (withdrawn) The system of claim 49, wherein the configuring device is a commercially available computer.

51. (withdrawn) The system of claim 50, wherein the configuring device is a person digital assistant.

52. (withdrawn) The system of claim 51, the personal digital assistant is selected from group of devices consisting of a Palm™ and the like.

53. (withdrawn) A thermostat system comprising:
a plurality of thermostats; and
wherein each thermostat of the plurality of
thermostats comprises at least one configuration

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for an air management system, the at least one
configuration comprising:

an air management system identification;
a listing of zones for the air management
system;
parameter settings for each zone;
schedules of the parameter settings;
modulated controls for a plurality of
heating stages for at least one zone;
and
modulated controls for a plurality of
cooling stages for at least one zone.

54. (previously presented) The system of claim 53, wherein the plurality of thermostats is connected to a communications bus.

55. (previously presented) The system of claim 54, further comprising a sequencing system controller connected to the communications bus, for controlling and staging the plurality of thermostats.

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56. (previously presented) The system of claim 55, wherein the at least one configuration further comprises a modulated control for a simultaneous operation of a heating device and a cooling device.

57. (previously presented) The system of claim 56, wherein the simultaneous heating device and the cooling device is for affecting humidity.

58. (previously presented) The system of claim 57, wherein the at least one configuration comprises a modulated control for an air mover.

59. (previously presented) The system of claim 58, wherein the modulated controls comprise PID (proportional, integral and derivative) control loop tuning.

60. (previously presented) The system of claim 58, wherein the parameters are selected from a group consisting of temperatures, humidity, sensor selection, volume of air movement, the

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percentage of added fresh air, modes of occupied, unoccupied or standby of certain spaces for at least one zone.

61. (previously presented) The system of claim 58, wherein the at least one configuration further comprises a selectable non-modulated control for the pluralities of the heating and cooling stages and for the air mover.

62. (previously presented) The system of claim 61, further comprising:

a configuring device; and

wherein:

the configuring device may communicate with system sequencing controller; and

the configuring device may upload, store, modify and download one or more configurations of the system sequencing controller and at least one configuration of the plurality of thermostats.

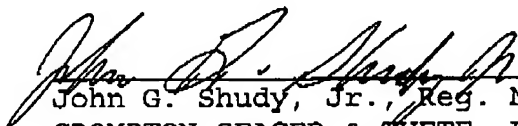
63. (previously presented) The system of claim 61, wherein the configuring device is a personal digital assistant.

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Respectfully submitted,

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